	Application No.	Applicant(s)
	09/575,638	LAFFEND ET AL.
. Notice of Allowability	Examiner	Art Unit
	Hope A. Robinson	1656
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 4/18/06.		
2. The allowed claim(s) is/are 2,6 and 31.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Summary (Paper No./Mail Date 08), 7. ⊠ Examiner's Amendm	te <u>6/21/06</u> .
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EXAMINER'S AMENDMENT

- 1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization of this Examiner's amendment was given in a telephone interview with Ms. Chris Lhulier on June 21, 2006.
- 3. The claims have been amended as follows:

Claim 2 (Currently Amended) A bioconversion process to produce 1, 3-propanediol comprising contacting, under suitable conditions, glycerol or dihydroxyacetone with a single recombinant microorganism [having at least one] expressing an exogenous [gene] glycerol dehydratase enzyme from Klebsiella or Citrobacter [expressing a glycerol dehydratase enzyme], the microorganism selected from the group consisting of members of the genera Aspergillus, Saccharomyces, Zygosaccharomyces, Pichia, Kluyveromyces, Candida, Hansenula, Debaryomyces, Mucor, Torulopsis, Methylobacter, Bacillus, Streptomyces and Pseudomonas.

Claim 6 (Currently Amended) The process of [Claim] claim 2 wherein the microorganism is transformed with [at least one exogenous DNA fragment encoding:]

(a) dhaB1, dhaB2, and dhaB3; or

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(b) dhaB1, dhaB2, dhaB3, and dhaT, wherein the exogenous glycerol dehydratase enzyme is from *Klebsiella*.

Claim 31 (Currently Amended) A recombinant eukaryote microorganism selected from the group consisting of yeast and filamentous fungi, and [having at least one exogenous gene] expressing an exogenous glycerol dehydratase enzyme from *Klebsiella* or *Citrobacter* [expressing a glycerol dehydratase enzyme].

EXAMINER'S COMMENTS

- 4. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 18, 2006 has been entered.
- 5. The Terminal disclaimers filed on May 5, 2006 have been received and entered.

Withdrawn Claim Rejections - 35 USC § 112

6. The previous rejection of claims under 35 U.S.C. 103, Obvious-type double patenting is withdrawn by virtue of submission of a terminal disclaimer.

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7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

8. Claims 2, 6 and 31 are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope A. Robinson whose telephone number is 571-272-0957. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathleen Kerr, can be reached at (571) 272-0931. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Hope Robinson, MS Ar Patent Examiner G 1/06

HOPE ROBINSON PATENT EXAMINER